

DiskMonTools

		COLLABORATORS	
	TITLE : DiskMonTools		
ACTION	NAME	DATE	SIGNATURE
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REVISION HISTORY			
DATE	DESCRIPTION	NAME	

DiskMonTools

Contents

1	Disk	MonTools	1
	1.1	DiskMonTools V3.10 Manual	1
	1.2	what is diskmontools?	2
	1.3	problems	3
	1.4	copyright	4
	1.5	installation	5
	1.6	How to get a registered version?	7
	1.7	register form	7
	1.8	My Address	9
	1.9	history	9
	1.10	diskmon	11
	1.11	The MFM-Editor (ONLY Floppy Disks)	14
	1.12	mfm read	15
	1.13	mfm write	15
	1.14	mfm indexsync	15
	1.15	mfm trackinfo	15
	1.16	mfm writelen	15
	1.17	mfm prewrite	15
	1.18	mfm cyl	15
	1.19	mfm head	15
	1.20	mfm arrange sn	16
	1.21	mfm arrange so	16
	1.22	mfm sync	16
	1.23	mfm find	16
	1.24	mfm sync,find	16
	1.25	mfm scroll data	16
		mfm quit	16
	1.27	mfm error	16
		DiskMonTools DiskOptimizer	
	1.29	Optimize - Read/Start	17

DiskMonTools

1.30	Optimize - Workbench Mode	17
1.31	Optimize - FastFiles	18
1.32	Optimize - Optimize for	18
1.33	Optimize - Do SoftLinks On/Off	18
1.34	Optimize - Verify On/Off	18
1.35	Optimize - Change Date On/Off	18
1.36	Optimize - Quit DiskMonTools DiskOptimizer	19
1.37	BAM-Editor (ONLY 1760 block drives)	19
1.38	File-Editor	19
1.39	fileread	20
1.40	filewrite	20
1.41	fileblocknr	20
1.42	fileauto	20
1.43	fileedit	20
1.44	filedisplay	20
1.45	filesearch	21
1.46	filequit	21
1.47	fileerror	21
1.48	undelete	21
1.49	cleanup	21
1.50	salvage	21
1.51	Audio CD-Player	22
1.52	speed	22
1.53	File-Editor (RAM)	22
1.54	Save as	23
1.55	Search data	23
1.56	edit-mode	23
1.57	display-mode	24
1.58	quit file-monitor	24
1.59	Proportional-Gadget	24
1.60	Errors	24

DiskMonTools 1/24

Chapter 1

DiskMonTools

1.1 DiskMonTools V3.10 Manual

```
##
                         ##
                                  ##
                                              ######
             ##
                   ### ###
## ##
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     ## ##### ## ## ## ## ###
                                   ## ###
                                          ### ##### ~
                     - English manual -----
            !!! Shareware !!!
             What is DiskMonTools V3.10?
             Copyright and Warranty
             Installation/Requirements
             Changes in DMT 3.10/History
             Known Problems
           Disk Monitor
             DiskOptimizer
             Mfm-Editor
```

DiskMonTools 2 / 24

```
File Monitor (Disk)

Undelete

Bam-Editor

File Monitor (Ram)

Salvage

Speed-Test

Audio CD Player

CleanUp
```

Many thanks to the few registered users of DiskMonTools.~

1.2 what is diskmontools?

```
DiskMonTools (DMT) is a program, which has many tools for \,\leftarrow
                   Floppydisks,
Harddisks, CD-drives, RAM-Disks etc.
With DMT you can
                 edit.
                 data on any drive (hexadezimal and ascii).
Supports all block-orientated devices, such as FloppyDisks,
Harddisks, RAM-Disks, CD-ROMs, File-Partitions, etc.
All Amiga-FileSystems (OFS, FFS, INTL OFS, INTL FFS, DirCache OFS
and DirCache FFS) are supported as well as partitions with
blocksizes other than 512 bytes and you can edit the harddisk's
Rigid-Disk-Blocks.
You have additional functions, for example search data, find file-
headers, jump to Parent-/Header-/DirChache-/... Blocks, etc.
You may also
                 edit data in files
                . With DMT it
is possible to edit files that are
                 larger than the availible RAM
In the FileMonitor you may search for data (hex and ascii).
With the
                 MfmEditor
                 you may even edit the MEM-Encoded Data on
Floppy-Disks (the format the data is stored physically on the drive).
It has additional features, such as sorting the data, move data,
index-sync read/write (for PC-Disks), check the checksumms (for
trackdisk, diskspare and mfm.device disks), ...
```

DiskMonTools 3/24

Read-/Write-Errors on Floppy-Disks (only DFx:, trackdisk.device) may be corrected using

RepairTrack

•

On DD-Disks and compatible File-/Ram-Disks (880 KB) you can view/edit the BAM (Block-Availible-Map) with the

BamEditor

Deleted files can be recovered using

Undelete

If you have errors on a filesystem (disk not validated) you may use

Salvage

to restore all files of a Partition.

The

read-speed

of any drive can be calculated.

To speed up the file access, use the

Optimizer

to reorganize the

filesystem-structure. Optimizing for WorkBench-access (Icons) is as well possible as optimizing for read-only or read/write and access to the first bytes of all files can be speed up (for file-type recognizing tools), ...

Audio-CDs can be played using the

CD Player

. This CD-Player does

not have manny features but (therefore) works with manny drives and controllers.

DiskMonTools is

Shareware

111

USE AT YOUR OWN RISK, LOSS OF DATA POSSIBLE IF YOU DO SOMETHING WRONG !!!!!!!!!

1.3 problems

XFH:

If you are using a XFH-Partition and the underlying FileSystem is "Inhibited" (DiskMon/NDOS, by using Undelete or DiskOptimizer), and you access the XFH-Partition at the same time, a DeadLock will occur. By using "Assign <Volume-name> DISMOUNT" to remove the unpacked drive (to hide it from the WorkBench) and an "Inhibit" is done, the packed drive will be lost (i.e. you can't access it any longer until you

DiskMonTools 4 / 24

reboot).

This problem is not a bug in DMT, it is a problem of the XFH, other tools using "Inhibit" will cause the same errors.

Graphic-Boards:

Read the section Installation/Requirements/ToolTypes/RTG. With OS 3.1 and ToolType RTG, DMT should run on ANY Graphic-Board!

SCSI/AT-Controller:

If your controller does not support SCSI-dircet-commands (and the system crashes) use the ToolType "NoSCSI".

Other devices may also crash if SCSI-dircet-commands are used, if you have such a device use "NOSCSI" too.

1.4 copyright

Copyright

DiskMonTools is NOT Public Domain, it is $\ \ \,$ by Jörg Strohmayer

any commercial usage or selling without author's written authorization is strictly forbidden. You can freely distribute DiskMonTools V3.10 under the following conditions:

- All files must be distributed together, no file may be added or removed.
- The files may not be modified in any way. The only exception is that ALL the files may me compressed into ONE archive for distributing it via Bulletin Boards or other electronic transmission.
- You don't charge more than a reasonably copying fee.
- The key-file ('DiskMonTools.Key') must NEVER be distributed in ANY way.
- If you want to use DiskMonTools after testing it, you have to pay the

Shareware

- By copying, distributing and/or using the program you indicate your acceptance of this conditions.

NewIcons

The DMT-Icons support the "NewIcons"-System by Nicola Salmoria. The guide-Icons are taken from the NewIcons Package by Nicola Salmoria, Roger McVey and Philip A. Vedovatti.

Warranty

These Files and their related documentation, utilities, and examples are provided "AS-IS" and subject to change without notice; no warranties are made. All use is at your own risk. No liability or

DiskMonTools 5 / 24

responsibility is assumed.

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1.5 installation

Requrements

DiskMonTools (DMT) V3.10 needs OS 2.04 (V37) to run.

 ${\tt DMT}$ uses the asl.library for FileRequesters.

DMT requires the diskfont.library, if you want to use other fonts than Topaz/8.

Installation

No special Installtion is required, simply copy DiskMon to any directory you like.

Registered users have to copy the file "DiskMonTools.Key" to the same directory. Starting with DMT 3.1 the file "DiskMonTools.Key" may be copied to "SYS:Prefs/Presets", "ENVARC:" or "S:".

ToolTypes

To allow changing the ToolTypes if DMT is on a CD-Rom, the ToolTypes are read from "Sys:Prefs/Presets/DiskMonTools.info" (if it exists, if not the "normal" Icon is used).

If you have DMT on a CD-Rom, copy DiskMonTools.info to "Sys:Prefs/Presets" and change the ToolTypes there.

DiskMonTools supports the following ToolTypes:

ScreenMode: With this ToolType you can select a ScreenMode, for Example

ScreenMode=0x8000 - Default HighRes ScreenMode=0x29000 - Pal HighRes

ScreenMode=0x19004 - Ntsc HighRes Interlace

DiskMonTools 6 / 24

ScreenMode=0xA9000 - DblPal HighRes (AGA only)
ScreenMode=0x69024 - Euro72 Productivity
ScreenMode=0x89020 - Super72 SuperHighRes
ScreenMode=0x39024 - Multiscan Productivity
ScreenMode=0x39020 - Multiscan 640x240 (AGA only)
DiskMonTools trys to open a 8-Color screen. The
DiskOptimizer shows more information if you have 8 colors,
so if you don't have an AGA-Amiga you should use the PALScreenmode (or if not availible NTSC HighRes Interlaced)
if you want to use the DiskOptimizer.
If this ToolType is not specified, DiskMonTools opnes a
"BestModeID"-Screen (OS >= 3.0) or trys to open a
Pal-HighRes and if it fails a Ntsc-HighRes-Interlace screen.
If you have problems with graphic-boards try this ToolType.

RTG Window

: If DMT does not run on a graphic-board with the ToolType RTG you may try this ToolType. Now DMT does not open a Screen but a Window on the default public-screen (normaly the WorkBench-Screen). This Screen has to have at least 4 colors and the screen-height has to be 256 or more. You should only use this ToolType if you have a graphic-board and DMT does not run with the ToolType RTG, because DMT does not open a 'normal' Window (the window has no borders, no (standart) dragbar etc.).

NoSCSI

: By setting this ToolType, DiskMonTools does not use any SCSI-Direct-Commands. (Use it if your Controller does not support these commands). If "NoSCSI" is set, the Audio-CD-Player can't be used.

256

: With this ToolType DiskMonTools supports Devices with a BlockSize of 256, 512, 1024, 2048, 4096, 8192, 16384 and 32768 Bytes. Without this ToolType DMT only uses devices with a BlockSize of 512 Bytes and CD-Roms.

Font : Name of the font, which DMT will use.

FontSize : Size of the font.

FontXDPI : X- and Y-DPI of the font (only when using a scalable

FontYDPI Intellifont®).

Default values are "Font=topaz.font", "FontSize=8", "FontXDPI=100" and "FontYDPI=100". With the fonts that come with the Workbench you can get the following:

Font	FontSize	FontXDP	I FontYDPI	FontSize	ScreenSize
(Topaz.font)	(8)	(100)	(100)	8* 8	640* 256
(Topaz.font)	11	(100)	(100)	8 * 11	640* 352
Courier.font	14 (*)	(100)	(100)	8 * 14	640 * 448
LetterGothic.font	15	(100)	80	8*15	640 * 480
LetterGothic.font	16	(100)	80	8*16	640* 512
LetterGothic.font	17	(100)	90	8*17	640* 544
LetterGothic.font	17	(100)	80	9*17	720* 544
LetterGothic.font	16	(100)	65	10*16	800* 512
LetterGothic.font	19	(100)	80	10*19	800* 608
LetterGothic.font	24	(100)	80	12*24	960* 768
LetterGothic.font	24	(100)	75	13*24	1040* 768
LetterGothic.font	28	(100)	80	14*28	1120* 896
LetterGothic.font	37	(100)	75	20*37	1600*1184
LetterGothic.font	38	(100)	80	20*38	1600*1216

DiskMonTools 7 / 24

(*) The font Courier/14 is scaled.

Note that if the x-size of a font is different from 8, RTG mode is on (see ToolType RTG).

1.6 How to get a registered version?

DiskMonTools is Shareware, if you want to use it you have to pay $\,\leftrightarrow\,$

shareware fee. You will get a 'key-file' which removes the Pay-Shareware-Requesters in DiskMonTools V3.10 and following versions.

Shareware fee

Register DiskMonTools : DM 25 or US\$ 20

Register DiskMonTools +

Disk with latest version: DM 30 or US\$ 25

Please note that these are the minimum fees, if DMT is worth more for you send more! If you want to get updates on disk add DM 5 (US\$ 5 outside of europe) for each update and write that you want to get updates on disk. Please send only Cash in DM or US\$. Fill in the

registration form
 and send it to
me
 along with the money.

1.7 register form

DiskMonTools 3.10 Registration form
Send the filled in registration form along with the money to:
Jörg Strohmayer Im Bachacker 10 D-35232 Dautphetal Germany
Name :
Address :

DiskMonTools 8 / 24

E-Mail :	
Where did you get your curre	nt copy:
Suggestions for improvement/	Bugs found:
Which tools of DMT are the mo	ost important for you:
_ _ Register DiskMonTools	
	nd distribution details and agree.
(Date)	(Signature)
	ired for registration, but recommendet)

DiskMonTools 9 / 24

Manufacturer: _ Amiga Inc. (Commodore)
_ Amiga /// Technologies
_ _ Other:
Memory: MB Chip mem MB Fast mem
Processor: 6800 _ FPU _ MMU Turbo-board:
MB Controller:
 _ SCSI _ AT MB Controller:
CD-Rom: _ SCSI _ AT Controller:
Other Hardware:
_ _ Graphic-Board:
 _
_ _
_ _

1.8 My Address

Send comments, suggestions, bug reports, etc. and the shareware fee to:

Jörg Strohmayer Im Bachacker 10 D-35232 Dautphetal Germany

js@apg.lahn.de

1.9 history

DiskMonTools 10 / 24

Version 3.10:

DiskMonTools : Supports TD64 and NSD devices.

Version 3.9:

: Bug when optimizing a DirCache partition removed Optimizer

Version 3.8:

CleanUp : Removes deletet files.

Version 3.7:

CD-Player : Did not work in 3.6

Version 3.6:

Undelete : Now works with OldFileSystem

MFM-Editor : Now only works with 'trackdisk.device' since the test with TD_RAWREAD had some problems with some

SCSI-controllers and some CD-Roms.

Version 3.5:

Speed : performes more tests.

Undelete : (de-)select files with a pattern.

: Busy-Pointer weas not always switched off. Optimizer

Version 3.4 AFS:

Undelete/Salvage: Works with AFS.

Version 3.4:

: Are read from "Sys:Prefs/Presets/DiskMon.info", if ToolTypes

it exists (for usign DMT from CD-Rom).

FileMon-Ram : Changes after position 0x10000 were not displayed.

PFS : PFS support removed.

OS 2.0 (V36) : Support removed, DMT now requires OS 2.04 (V37). BUG-Fix

: In the DiskOptimizer the allocated memory was

not always freed completely.

Changes from 3.2 to 3.3:

: New option "Tree". Undelete

: New ToolTypes "NoSCSI" and "256". ToolTypes

MFM-Editor : New gadget "TInfo". DiskOptimizer : New option "FastFiles".

Changes from 3.1 to 3.2:

DiskOptimizer : Now much faster, faster than all other DiskOptimizers !

Font-Sensitive : (ToolTypes Font, FontSize, FontXDPI, FontYDPI) DMT 3.2 now

can use a user-selectable font (and thereforce other

screen-sizes).

Undelete : Can recover deleted files on ProfessionalFileSystem

(PFS) disks.

DiskMon : Supports the PFS.

Undelete : When displaying the root-directory, DMT did not display

all entries.

DiskMon - Check: Turn off 'Check' (to read for example RDB-blocks)

did not work in DMT 3.1.

Changes from 3.0 to 3.1:

DiskMonTools 11/24

68000-CPU : Because of a bug, DMT 3.0 did only run on Amigas with

a CPU >=68020, DMT 3.1 now works again with all CPUs.

Some minor bugs removed: (for example the displayed number of total blocks

of partitions with a blocksize other than

512 bytes was wrong).

Screen was not autoscrollable.

DiskMon.Key : May now be copied to SYS:Prefs/Presets, ENVARC: or S: ToolType Window: DiskMonTools now can run in a window on the Workbench. SoftLinks : The DiskOptimizer now can optimize partitions with

softlinks.

FileMon (RAM) : New FileMon, which loads the complete file into memory

and writes it after editing back to disk in a new file.

Speed : Tests the speed of any drive.

CD-ROM support: The DiskMonitor now works with CD-ROMs.

CD Player : Simple Audio CD-Player (but the only one that works with

my CD-Drive).

1.10 diskmon

With the DiskMonitor you can view and edit the blocks of a disk.

Gadgets:

Read

DiksMon reads and displays the selected block of the selected Drive.

Checksum

DiskMon calculates the checksum of the displayed block if the block type is

- Root Block
- Directory
- File Header
- File List
- Boot Block (only if 'Check' is 'on')
- old filesystem Data Block
- Directory Cache Block
- Hard Link
- Soft Link
- Rigid-Disk-Blocks (RDSK, PART, FSHD, LSEG, BADB, ...)

Only use it if the block type is not '?? Unknown ??'.

Write

DiskMon writes the block to the selected block number and drive.

Remember to correct the checksum if required.

Edit

Selects the mode of editing. HEX means you have to enter the data as hexadecimal (half-)bytes, ASCII for entering characters.

Search

A requester is displayed where you can select the startblock, endblock and the text you whish to search. 'Stop' aborts while 'Search' starts searching. If the text is found you can 'Stop' searching or continue searching by clicking 'Search' again.

Search is case sensitive and no patterns are used.

DiskMonTools 12 / 24

If you want to search hexadecimal data you can do this by entering '\$' as the fist character (for example '\$AB cd 12' which is equal to '\$ abc d12' but '\$AbcD12' is wrong because of the space before the '\$').

Header

Search a fileheader on the selected disk.

Select the file-/dirname in the asl-requester and the fileheader of this file/dir will be loaded and displayed.

ATTENTION: The file has to be on the selected drive, else you get the wrong block or an error.

If you don't have the 'asl.library', you have to enter the full path and filename in the requester.

Repair (ONLY Floppy Disks)

If there is a read/write error on the disk you can't read the whole track, but in most cases there is only one of the 11/22 blocks destroyed. Diskmon reads the selected track and tries to recover as much data as possible. It will be displayed which block is ok ('repaired') and which block could not be corrected ('not repaired'). Now you are asked if you want to write the data back to disk or not. You may change the disk to write the reults to another disk. If you select 'Yes' the recovered data is written to the disk, 'No' aborts.

ATTENTION !!! if you write the data back to the same disk and there are blocks which are not repaired, there is no chance of getting lost data back.

Quit.

Return to the main-screen.

Display

This gadget selects which characters are displayed.

ASCII : characters 32-127

Visible: characters 32-127 and 160-255

All : characters 0-255

Check

Toogles the range checking of the block number (only works, if the blocksize of the partition is $512\ \mathrm{bytes}$).

on : Default

off: The block number given is send directly to the device.

On Harddisks for example, you get the rigid-disk-block if 'check' is off and you enter block number 0.

ATTENTION !!!: By changing the rigid-disk-blocks you may loose all the data on all your partion of the Harddisk.

ATTENTION !!!: If you get outside the range of a RAM-Disk like RAD: you view/edit any part of the memory which can cause a system crash.

Use 'Check off' with extreme caution and at your own risk.

Block

You can enter the block number decimal (1.Gadget) or hexadecimal (2.Gadget). Use the '+' and '-' gadgets of Sec. to increase/decrease the block number.

Cyl.

You can enter the cylinder number decimal, increase '+' or decrease '-' it.

R - Root

The Gadget 'R' gives you the Root-Block of the disk/partion.

DiskMonTools 13 / 24

```
If 'Check' is off you get block number 0.
You can enter the head number decimal, increase '+' or decrease '-' it.
Aut.o
If 'on', any change to the block number will read and display the new block
imediately. If 'off', you have to click 'Read' to get the new block.
Sec
You can enter the sector number decimal, increase ^{\prime}+^{\prime} or decrease ^{\prime}-^{\prime} it.
Use '+' and '-' of Sec. to increase/decrease the block number.
NDOS
If 'on', no other task can use the drive you are viewing/editing. If 'off',
other tasks have access to the drive too (dangerous if you change data, if
you only want to view/search data you may set NDOS to 'off').
Header/Parent, Next/1.Data/DirCache
There are 2 gadgets 'Get', use these to get the block-number
displayed after the ':'. If 'Auto' is 'On' the block will be read.
Output:
Errors
Errors are displayed on the last line at the right side.
ChecksumOK
DiskMon displays if the CheckSum is right and used in the displayed block.
Checksum: 'Right' or 'Wrong'
          'Used !!!' or 'Not used'
Type
Type of the block or '?? unknown ??' if not a valid type. On
Fast-File-System disks '?? unknown ??' blocks may be data blocks.
Name
Name of file/dir/disk or nothing
Drive Information
<1>: unit <2> of <3>.device
<1>= name of the drive (DF0:, DH0:, RAD:, ...)
<2>= unit number (0 for DF0:, 3 for DF3:, ...)
<3>= name of the device (trackdisk, scsi, ramdrive, ...)
Blocks
        : number of blocks
                                     Cyls
                                               : number of cylinders
          : number of heads
                                     Sectors : number of sectors
RootBlock : block number of the Root-Block
Filesystem: DOS<x> (DOS<y>) : Filesystem on disk (FS reported from DOS)
            \langle x \rangle and \langle y \rangle may be:
            @=old filesystem
                                              -DOS 0x00
            A=fast filesystem
                                              -DOS 0x01
            B=international old filesystem -DOS 0x02
            C=international fast filesystem -DOS 0x03
            D=directory cache old filesystem -DOS 0x04
            E=directory cache fast filesystem-DOS 0x05
```

DiskMonTools 14 / 24

More Information is displayed in the main-screen when selecting the Drive.

1.11 The MFM-Editor (ONLY Floppy Disks)

```
Editor ----
Read
  Write
 TInfo
 Head
0
 Arrange SecNumber
 Arrange SecOffset
 $
 Find
 ScrollData
1 Bit
 <
  2 Bits
 <
  4 Bits
 <
 Bytes
 Quit MFM-Editor
```

DiskMonTools 15 / 24

1.12 mfm read

Reads a track from disk.

1.13 mfm write

Writes the track back to disk.

1.14 mfm indexsync

Toogles the indexsync mode. AmigaDOS does not use indexsync but PC-DOS does.

1.15 mfm trackinfo

Displays some informations about the track (format, checksumms, etc.).

1.16 mfm writelen

Number of bytes (decimal) to write to the disk. On 880KB disks, AmigaDOS uses 11968 bytes of data (11*1088) and the rest of about 700 bytes are the gap.

1.17 mfm prewrite

Number of bytes (decimal) to write before the real data. These bytes are 0xAA which is decoded 0x00. PreWrite is used to delete possible syncs in the gap because the real data is less than would fit on the disk. PreWrite is not used if IndexSync is on.

1.18 mfm cyl.

Number of the Cylinder to read/write.

1.19 mfm head

Select head 0 or 1.

DiskMonTools 16 / 24

1.20 mfm arrange sn

The sectors are arranged by the sector number. This means at offset 0 will be sector 0, offset 1088 sector 1, \dots , offset 1088 sector 10.

1.21 mfm arrange so

The sectors are arranged by the sector offset like they are written to the disk by AmigaDOS. In the error-line (right last line below the gadgets) it is displayed in which order the sectors are arranged, '-' means sector not found. Additionaly the gap is arranged after the last sector.

1.22 mfm sync

DiskMonTools searches the given SYNC-word and if found the data will be arranged, that the SYNC-word is at offset 0.

1.23 mfm find

Searches the giver word. If found, a requester appears where you can continue searching or stop searching.

1.24 mfm sync,find

Enter the word to find/sync.

1.25 mfm scroll data

Cycles the data 1,2,4 bit or a given number of bytes left or right.

1.26 mfm quit

Returns to main menu.

1.27 mfm error

Errors are displayed on the last line at the right side.

DiskMonTools 17 / 24

1.28 DiskMonTools DiskOptimizer

Root/BAM Dirs DCache Files FList Data Free Optimize \leftrightarrow # of # of # of boot # of # of # of # of and BAM Dirs Dir-Files File- Data unused Read/Start blocks Caching Exten- blocks blocks WBMode On/Off blocks tion [1] Blocks FFiles Blocks Optimize for ... Do SoftLinks On/Off Verify On/Off Change Date On/Off Ouit You should have <Type>=R/W and >=1% for Speed Cache $< \leftarrow$ Type> + #K=#% <Type>=Complete Disk, you may change disk after reading Read/Write Disk #% about H hours, M minutes and S seconds to go Remaining Time:H:M:S Cache Usage in % Cache: #% #% of Disk finished Done: #% Errors in this Line

USE IT AT YOUR OWN RISK, MAKE A BACKUP BEFORE OPTIMIZING A DISK !!!

1.29 Optimize - Read/Start

Read: Reads the directories of the Disk and displays the Fragmentation.

Reading does not change anything on the disk. After reading you can start optimizing with this gadget.

ATTENTION: You have to set all options BEFORE 'Read'.

Start: Start Disk-Optimizing. (After "Read" is done).
 WARNING: You can't stop it, MAKE A BACKUP BEFORE STARTING.
 If Cache Type = 'Complete Disk' you can change the Disk before you select 'Start'

1.30 Optimize - Workbench Mode

DiskMonTools 18 / 24

Select 'OFF' if you don't use the disk with the workbench.

1.31 Optimize - FastFiles

With this option you may select, if and how much blocks of a file will be placed directly after the directory.

If this option is used, directory-scanning will be a little slower, but programs which analyse the type of a file, like DefIcons, FInf, XFH, DirOpus with "List format"/"File type" and others can recognize the file-type much faster.

If using a DirCache-FileSystem you will additionally get faster directory changes (Rename, SetDate, Change FileNote) if "FFiles" is enabled.

1.32 Optimize - Optimize for

'Read Only': Optimize for Reading, use this if you don't write to this disk for example your 'Workbench'-Partition.

'Read/Write': Optimize for Reading and Writing, use this if you write often to this disk, for example your 'Work'-Partition.

1.33 Optimize - Do SoftLinks On/Off

This option is disabled by default, because the format of the SoftLinks may change in future OS versions. If you use a OS 2.0- OS 3.1 filesystem and use SoftLinks you may enable this option. If set to 'Off' and there is a SoftLink on the disk you will get an error message. Do not use this option if you have a newer OS (filesystem) than 3.1 (v40).

1.34 Optimize - Verify On/Off

Verify writing 'On' or 'Off'.

You should select 'On' for floppy-disks and 'Off' for hard-disks.

Verify 'On' only verifys writing and displays the error, no retrys! For floppy-disks it is much better to use 'Hackdisk.device' by Dan Babcock (AmiNET:disk/misc/hackdisk202.lha or AmigaLibDisk (Fish) Nr. 803) which does verify all writes and gives you the chance to retry writing if there is an error. If you use Hackdisk.device set Verify to 'Off'.

1.35 Optimize - Change Date On/Off

DiskMonTools 19 / 24

Change disk-creation-date On or Off.

If the date is not changed, you will get read/write-errors until you reboot for the optimized disk and if you write to the disk before rebooting you may destroy some data on it. If you don't change the date, reboot imediately after optimizing the disk !!!

If you optimize a disk with OS-files such as SYS: you may have to reboot anyway.

1.36 Optimize - Quit DiskMonTools DiskOptimizer

Returns to main menu of DiskMonTools.

1.37 BAM-Editor (ONLY 1760 block drives)

Only available for DD-Floppy-Disk (880 KB)!

In this editor you can mark blocks as used or free on a disk.

The BAM (Block-Availible-Map, Sectormap) is loaded and displayed.

'+' means the block is used and '.' is a free block. Change the status by clicking on the cursor or pressing return.

Gadgets: 'Write BAM' writes the changes back to the disk and 'Quit BAM' returns to the main menu without writing the changes.

1.38 File-Editor

```
Read Block
  Write Block
  Auto Read on/off
  EditMode= <mode>
  OBO: 00000000 00000000 00000000 00000000 .....
Display = <mode>
```

DiskMonTools 20 / 24

1.39 fileread

Reads and displays the selected block.

1.40 filewrite

Writes the displayed block back to the file.

1.41 fileblocknr

Increase, enter, decrease the block number to view/edit.

1.42 fileauto

If 'on', any change to the block number will read and display the new block imediately. If 'off', you have to click 'Read' to get the new block.

1.43 fileedit

Selects the mode of editing. HEX means you have to enter the data as hexadecimal (half-)bytes, ASCII for entering characters.

1.44 filedisplay

This gadget selects which characters are displayed.

ASCII : characters 32-127

Visible: characters 32-127 and 160-255

All : characters 0-255

DiskMonTools 21 / 24

1.45 filesearch

A requester is displayed where you can select the startblock, endblock and the text you whish to search. 'Stop' aborts while 'Search' starts searching. If the text is found you can 'Stop' searching or continue searching by clicking 'Search' again.

Search is case sensitive and no patterns are used.

If you want to search hexadecimal data you can do this by entering '\$' as the fist character (for example '\$AB cd 12' which is equal to '\$ abc d12' but '\$AbcD12' is wrong because of the space before the '\$').

1.46 filequit

Return to main menu.

1.47 fileerror

Errors are displayed on the last line at the right side.

1.48 undelete

With Undelete you can recover deleted files.

After scanning the disk for deleted files you can select which files you want to undelete by selecting the files in the listview-gadget or by using the gadgets All , None and Recursive .

If you are searching a file you may switch off Tree and all files will be displayed.

You can (de-)select files with Include and Exclude and the pattern entered in the string-gadget.

After selecting the files you can use Undelete to copy as much as possible from the deleted files to a slectable directory.

Use Quit to quit Undelete.

1.49 cleanup

With CleanUp it is possible to remove the deletet files, so that they are no longer found in Undelete/Salvage.
Undelete/Salvage will be faster and only files deleted after Cleanup will be found.
With Restore you can undo CleanUp.

1.50 salvage

DiskMonTools 22 / 24

Salvage is the same as Undlete with two exeptions:

the whole partition is scanned for files and it works even if the partition is not validatet.

1.51 Audio CD-Player

A simple CD Player for Audio-CDs.

1 - 25 plays from the selected song to the end of the CD.
|< plays the previous song.
Play starts playing.
Stop stopps playing.
>| plays the next song.
Quit quits the CD-Player (but does not stop playing).

I have writte this CD-Player because no other CD-Player works with my CD-Drive. This CD-Player does not have much functions, if your drive works with other players you may want to use them, besause most other players have more functions. If your drive does not work with other players you may try this one because it uses diffrent SCSI-direct-commands.

Tested CD-Drives:

- Amiga 4000/030, BTC CDD-157, A4000-AT-Controller + SPEEDUP
- Amiga 4000/040, AppleCD300 (Sony 8003), Supra SCSI Controller
- Amiga 2000/030, NEC SCSI CD-Rom drive, A2091 Controller
- Amiga 1200, Chinon CDS-545, A1200-AT-Controller + RandyRom (IDEFix)
- Mitsumi CD-Rom drive, Tandem Controller

1.52 speed

Tests the read-performace of the selected drive.

This test performs (for 5 seconds) sequential reads of data of the size displayed in brackets.

The last size is the blocksize used by the FileSystem.

1.53 File-Editor (RAM)

DiskMonTools 23 / 24

```
Save as ...
   Search/Next/Prev.
   EditMode= <mode>
   Display = <mode>
   Quit
    !!! The file you want to edit must not be read protected \,\,\,\,\,\,\,\,\,\,
    !!!
  Error: pay fee !!!
```

1.54 Save as ...

Save as ... opens a file-requester where you can select the name which is used to save the changed file. Of course you may select the same name but you will overwrite the old file.

1.55 Search data

You can enter a text you whish to search.

Search is case sensitive and no patterns are used.

If you want to search hexadecimal data you can do this by entering
'\$' as the fist character (for example '\$AB cd 12' which is equal to
'\$ abc d12' but ' \$AbcD12' is wrong because of the space before the '\$').

Next will search the next occurrence of the text.

Prev. searches backwards.

1.56 edit-mode

Selects the mode of editing. HEX means you have to enter the data as hexadecimal (half-)bytes, ASCII for entering characters.

DiskMonTools 24 / 24

1.57 display-mode

This gadget selects which characters are displayed.

ASCII : characters 32-127

Visible: characters 32-127 and 160-255

All : characters 0-255

1.58 quit file-monitor

Return to main menu.

1.59 Proportional-Gadget

With this gadget you may select the position inside the file.

1.60 Errors

Errors are displayed on the last line at the right side.